

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	85	arsacs	USPAT; US-PGPUB; EPO; DERWENT	2003/09/02 17:30			0
2	BRS	L2	9	spastin	USPAT; US-PGPUB; EPO; DERWENT	2003/09/02 17:34			0
3	BRS	L3	0	1 same mutat\$3	USPAT; US-PGPUB; EPO; DERWENT	2003/09/02 17:37			0
4	BRS	L4	0	hybridiz\$5 same 2	USPAT; US-PGPUB; EPO; DERWENT	2003/09/02 17:38			0
5	BRS	L5	0	sacsin	USPAT; US-PGPUB; EPO; DERWENT	2003/09/02 17:39			0
6	BRS	L6	2	1 same gene	USPAT; US-PGPUB; EPO; DERWENT	2003/09/02 17:40			0
7	BRS	L7	0	recombinant same 2	USPAT; US-PGPUB; EPO; DERWENT	2003/09/02 17:40			0

FILE 'MEDLINE' ENTERED AT 17:44:48 ON 02 SEP 2003

FILE 'CAPLUS' ENTERED AT 17:44:48 ON 02 SEP 2003  
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FILE 'BIOSIS' ENTERED AT 17:44:48 ON 02 SEP 2003  
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FILE 'EMBASE' ENTERED AT 17:44:48 ON 02 SEP 2003  
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FILE 'AGRICOLA' ENTERED AT 17:44:48 ON 02 SEP 2003

=> s spastin  
L1 232 SPASTIN

=> s sacs in  
L2 30 SACSIN

=> s l1 or l2  
L3 257 L1 OR L2

=> s arsacs  
L4 60 ARSACS

=> s l4 (p) mutat?  
L5 25 L4 (P) MUTAT?

=> s l5 (p) l3  
L6 12 L5 (P) L3

=> duplicate remove l6  
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L6  
L7 5 DUPLICATE REMOVE L6 (7 DUPLICATES REMOVED)

=> d l7 1-5 ibib abs

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:965729 CAPLUS

DOCUMENT NUMBER: 138:235578

TITLE: Autosomal recessive spastic ataxia of  
Charlevoix-Saguenay (ARSACS/SACS)-no longer a local  
disease

AUTHOR(S): Richter, Andrea

CORPORATE SOURCE: Service de Genetique Medicale, Hopital Sainte-Justine,  
Departement de Pediatrie, Universite de Montreal,  
Montreal, QC, Can.

SOURCE: Genetics of Movement Disorders (2003), 189-193.  
Editor(s): Pulst, Stefan-M. Elsevier Science: San  
Diego, Calif.

CODEN: 69DIVT; ISBN: 0-12-566652-7

DOCUMENT TYPE: Conference; General Review

LANGUAGE: English

AB A review. Autosomal recessive spastic ataxia of Charlevoix-Saguenay (  
\*\*\*ARSACS\*\*\* /SACS, OMIM 270550) originally described in 1978 is a clin.  
homogeneous form of early-onset familial disease with prominent myelinated  
retinal nerve fibers (Bouchard et al., 1991). Over 300 patients were  
identified and most of their families originated in the  
Charlevoix-Saguenay region of Northeastern Quebec in Canada. The  
frequency of several recessive diseases is increased in this region due to  
a founder effect caused by the settlement patterns of the late 17th to  
mid-19th centuries (Jette et al., 1991, Gauvreau et al., 1991,  
DeBraekeleer, 1991). The gene carrier prevalence was estd. to be 1/22.  
(DeBraekeleer et al., 1993). Patients present in early childhood with  
spastic gait ataxia. The disease progresses rapidly in young adults and  
patients are wheelchair-bound by their fifth decade. The \*\*\*ARSACS\*\*\*  
locus was mapped to chromosome region 13q11 by noting increased  
homozygosity for locus D13S787 in a genome-wide scan (Bouchard et al.,  
1998). Following extensive genetic, phys., and transcript mapping

combined with directed sequencing, 2 \*\*\*mutations\*\*\* were detected in the \*\*\*sacsin\*\*\* (SACS) gene in \*\*\*ARSACS\*\*\* families (Richter et al., 1999, Engert et al., 1999, 2000). Both the single nucleotide deletion (g.6594delT, .DELTA.T) and the g.5254C > T (C > T) nonsense \*\*\*mutation\*\*\* cause the premature termination of the predicted \*\*\*sacsin\*\*\* protein. We calcd. disease allele frequencies using data from more than 125 Quebec \*\*\*ARSACS\*\*\* patients. Close to 94% of the disease alleles carried the .DELTA.T \*\*\*mutation\*\*\*, over 3% the C > T \*\*\*mutation\*\*\*. Interestingly close to 3% of the disease alleles carry unknown \*\*\*mutation\*\*\* (s), always in heterozygous form with .DELTA.T (Mercier et al., 2001). The sequencing of SACS is underway to identify these \*\*\*mutations\*\*\*. There are descriptions of recessive spastic ataxias clin. very similar to \*\*\*ARSACS\*\*\* in France (Chaigne et al., 1993), Tunisia (Mrissa et al., 2000), Spain (Pascual-Castroviejo et al., 2000), and Turkey (Gucuyener et al., 2001). The availability of family material in two of the studies permitted linkage anal. Results show that the disease linked to the SACS region on chromosome 13q in a large consanguineous kindred from Tunisia (Mrissa et al., 2000) and in two consanguineous families from Turkey (Gucuyener et al., 2001). These publications likely represent only the first few cases of recessive spastic ataxia where a diagnosis of \*\*\*ARSACS\*\*\* should be considered.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2001:300914 CAPLUS  
 DOCUMENT NUMBER: 134:324718  
 TITLE: Identification of the \*\*\*spastin\*\*\* gene associated with autosomal recessive spastic ataxia of Charlevoix-Saguenay ( \*\*\*ARSACS\*\*\* ) and diagnostic detection of \*\*\*mutations\*\*\*  
 INVENTOR(S): Hudson, Thomas J.; Engert, James; Richter, Andrea  
 PATENT ASSIGNEE(S): McGill University, Can.; Hopital Sainte-Justine  
 SOURCE: PCT Int. Appl., 76 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001029266	A2	20010426	WO 2000-US29130	20001020
WO 2001029266	A3	20020711		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-160588P P 19991020

AB Isolated spastin genes and fragments thereof, as well as Spastin proteins and fragments thereof are disclosed. Also disclosed are altered forms of spastin, as well as methods for the diagnosis and treatment of neurodegenerative disease.

L7 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
 ACCESSION NUMBER: 2003:381365 BIOSIS  
 DOCUMENT NUMBER: PREV200300381365  
 TITLE: \*\*\*ARSACS\*\*\* ; \*\*\*mutation\*\*\* detection and studies towards understanding the function of \*\*\*sacsin\*\*\*  
 AUTHOR(S): Richter, A. M. (1); Mercier, J. (1); Engert, J. C.; LeBlanc, C. (1); Hudson, T. J.  
 CORPORATE SOURCE: (1) Centre de Recherche, Hopital Sainte-Justine, Universite de Montreal, Montreal, PQ, Canada: andrea.richter@umontreal.ca Canada  
 SOURCE: European Journal of Human Genetics, (2001) Vol. 9, No. Supplement 1, pp. P1443. print.  
 Meeting Info.: 10th International Congress of Human Genetics Vienna, Austria May 15-19, 2001 International Federation of Human Genetics Societies . ISSN: 1018-4813.  
 DOCUMENT TYPE: Conference  
 LANGUAGE: English

L7 ANSWER 4 OF 5 MEDLINE on DUPLICATE  
 ACCESSION NUMBER: 2002062754 MEDLINE  
 DOCUMENT NUMBER: 21648525 PubMed ID: 11788093  
 TITLE: Rapid detection of the saccin mutations causing autosomal recessive spastic ataxia of Charlevoix-Saguenay.  
 AUTHOR: Mercier J; Prevost C; Engert J C; Bouchard J P; Mathieu J; Richter A  
 CORPORATE SOURCE: Service de Genetique Medicale, Hopital Sainte-Justine, Departement de Pediatrie, Universite de Montreal, 3175 Cote Sainte Catherine, Montreal, Quebec, Canada H3T 1C5.  
 SOURCE: GENETIC TESTING, (2001 Fall) 5 (3) 255-9.  
 Journal code: 9802546. ISSN: 1090-6576.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 200203  
 ENTRY DATE: Entered STN: 20020125  
 Last Updated on STN: 20020403  
 Entered Medline: 20020327

AB Autosomal recessive spastic ataxia of Charlevoix-Saguenay ( \*\*\*ARSACS\*\*\* ; MIM SACS 270550) is frequent in northeastern Quebec. Two causal \*\*\*mutations\*\*\* have been identified in the 11.7-kb single exon \*\*\*saccin\*\*\* gene by sequence-based analyses. \*\*\*Mutation\*\*\* g.6594delT (DeltaT) was reported in 96% of the patients whereas a g.5254C --> T nonsense \*\*\*mutation\*\*\* has been observed only in 2 families. Here we report a reliable and inexpensive method to detect more than 95% of the \*\*\*ARSACS\*\*\* disease alleles from northeastern Quebec using allele-specific oligonucleotide (ASO) hybridization. This procedure is being incorporated into the diagnosis of \*\*\*ARSACS\*\*\*, as well as being used for carrier detection in at-risk families from northeastern Quebec.

L7 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 2  
 ACCESSION NUMBER: 2000:114331 CAPLUS  
 DOCUMENT NUMBER: 132:263561  
 TITLE: ARSACS, a spastic ataxia common in northeastern Quebec, is caused by mutations in a new gene encoding an 11.5-kb ORF  
 AUTHOR(S): Engert, James C.; Berube, Pierre; Mercier, Jocelyne; Dore, Carole; Lepage, Pierre; Ge, Bing; Bouchard, Jean-Pierre; Mathieu, Jean; Melancon, Serge B.; Schalling, Martin; Lander, Eric S.; Morgan, Kenneth; Hudson, Thomas J.; Richter, Andrea  
 CORPORATE SOURCE: Montreal Genome Centre, McGill University Health Centre Research Institute, Montreal, QC, Can.  
 SOURCE: Nature Genetics (2000), 24(2), 120-125  
 CODEN: NGENEC; ISSN: 1061-4036  
 PUBLISHER: Nature America  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Autosomal recessive spastic ataxia of Charlevoix-Saguenay ( \*\*\*ARSACS\*\*\* or SACS) is an early onset neurodegenerative disease with high prevalence (carrier frequency 1/22) in the Charlevoix-Saguenay-Lac-Saint-Jean (CSLSJ) region of Quebec. The authors previously mapped the gene responsible for \*\*\*ARSACS\*\*\* to chromosome 13q11 and identified two ancestral haplotypes. Here the authors report the cloning of this gene, SACS, which encodes the protein \*\*\*saccin\*\*\*. The ORF of SACS is 11,487 bp and is encoded by a single gigantic exon spanning 12,794 bp. This exon is the largest to be identified in any vertebrate organism. The ORF is conserved in human and mouse. The putative protein contains three large segments with sequence similarity to each other and to the predicted protein of an Arabidopsis thaliana ORF. The presence of heat-shock domains suggests a function for \*\*\*saccin\*\*\* in chaperone-mediated protein folding. SACS is expressed in a variety of tissues, including the central nervous system. The authors identified two SACS \*\*\*mutations\*\*\* in \*\*\*ARSACS\*\*\* families that lead to protein truncation, consistent with haplotype anal.

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

FILE 'MEDLINE, CAPLUS, BIOSIS EMBASE, SCISEARCH, AGRICOLA' ENTERED AT  
17:44:48 ON 02 SEP 2003

L1 232 S SPASTIN  
L2 30 S SACSIN  
L3 257 S L1 OR L2  
L4 60 S ARSACS  
L5 25 S L4 (P) MUTAT?  
L6 12 S L5 (P) L3  
L7 5 DUPLICATE REMOVE L6 (7 DUPLICATES REMOVED)

=> duplicate remove l5

DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L5

L8 8 DUPLICATE REMOVE L5 (17 DUPLICATES REMOVED)

=> s l8 not l7

L9 4 L8 NOT L7

=> d l9 1-4 ibib abs

L9 ANSWER 1 OF 4 MEDLINE on STN  
ACCESSION NUMBER: 2003341319 MEDLINE  
DOCUMENT NUMBER: 22755616 PubMed ID: 12873855  
TITLE: Phenotypic features and genetic findings in saccin-related  
autosomal recessive ataxia in Tunisia.  
AUTHOR: El Euch-Fayache Ghada; Lalani Irfan; Amouri Rim; Turki  
Ilhem; Ouahchi Karim; Hung Wu-Yen; Belal Samir; Siddique  
Teepu; Hentati Faycal  
CORPORATE SOURCE: Department of Neurology, National Institute of Neurology,  
Tunis, Tunisia.  
SOURCE: ARCHIVES OF NEUROLOGY, (2003 Jul) 60 (7) 982-8.  
Journal code: 0372436. ISSN: 0003-9942.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals  
ENTRY MONTH: 200308  
ENTRY DATE: Entered STN: 20030723  
Last Updated on STN: 20030807  
Entered Medline: 20030806

AB BACKGROUND: Autosomal recessive spastic ataxia of Charlevoix-Saguenay (  
\*\*\*ARSACS\*\*\* ) is a clinically homogenous disorder reported in Quebec  
caused by \*\*\*mutations\*\*\* in the SACS gene (chromosome 13q12).  
Recently, we identified a Tunisian kindred demonstrating linkage to the  
\*\*\*ARSACS\*\*\* locus. OBJECTIVE: To report clinical, neurophysiological,  
and nerve biopsy findings in patients with autosomal recessive cerebellar  
ataxia related to the SACS gene in Tunisia. PATIENTS AND METHODS: Genetic  
linkage analysis of patients with early-onset autosomal recessive  
cerebellar ataxia allowed the identification of 4 families from which 18  
patients demonstrated linkage to the \*\*\*ARSACS\*\*\* locus. The patients  
were evaluated according to the International Cooperative Ataxia Rating  
Scale. Peripheral nerve conduction, sensory evoked potentials, and nerve  
biopsy were performed in most patients. RESULTS: The mean age at onset  
was 4.5 years. The clinical phenotype was stereotyped and associated with  
a progressive cerebellar syndrome, a pyramidal syndrome with brisk knee  
reflexes, and Babinski sign and absent ankle reflexes. The course of the  
disease varied among patients. Sensory evoked potentials showed severe  
posterior column involvement. Peripheral nerve investigations  
demonstrated axonal and demyelinating neuropathy. Four \*\*\*mutations\*\*\*  
, 2 missense and 2 nonsense, were found. CONCLUSION: In Tunisia,  
autosomal recessive cerebellar ataxia related to the SACS gene  
demonstrated a homogenous phenotype and heterogeneous allelic  
\*\*\*mutations\*\*\*.

L9 ANSWER 2 OF 4 MEDLINE on STN  
ACCESSION NUMBER: 2000120709 MEDLINE  
DOCUMENT NUMBER: 20120709 PubMed ID: 10655055  
TITLE: \*\*\*ARSACS\*\*\*, a spastic ataxia common in northeastern  
Quebec, is caused by \*\*\*mutations\*\*\* in a new gene  
encoding an 11.5-kb ORF.  
AUTHOR: Engert J C; Berube P; Mercier J; Dore C; Lepage P; Ge B;  
Bouchard J P; Mathieu J; Melancon S B; Schalling M; Lander  
E S; Morgan K; Hudson T J; Richter A  
CORPORATE SOURCE: Montreal Genome Centre, McGill University Health Centre  
Research Institute, Montreal, Quebec, Canada.  
SOURCE: NATURE GENETICS, (2000 Feb) 24 (2) 120-5.

Journal code: 9216904. ISSN: 1061-4036.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 OTHER SOURCE: GENBANK-AB006708; GENBANK-AF193556; GENBANK-AF193557  
 ENTRY MONTH: 200002  
 ENTRY DATE: Entered STN: 20000314  
 Last Updated on STN: 20000314  
 Entered Medline: 20000228

AB Autosomal recessive spastic ataxia of Charlevoix-Saguenay (ARSACS or SACS) is an early onset neurodegenerative disease with high prevalence (carrier frequency 1/22) in the Charlevoix-Saguenay-Lac-Saint-Jean (CSLSJ) region of Quebec. We previously mapped the gene responsible for ARSACS to chromosome 13q11 and identified two ancestral haplotypes. Here we report the cloning of this gene, SACS, which encodes the protein saccin. The ORF of SACS is 11,487 bp and is encoded by a single gigantic exon spanning 12,794 bp. This exon is the largest to be identified in any vertebrate organism. The ORF is conserved in human and mouse. The putative protein contains three large segments with sequence similarity to each other and to the predicted protein of an Arabidopsis thaliana ORF. The presence of heat-shock domains suggests a function for saccin in chaperone-mediated protein folding. SACS is expressed in a variety of tissues, including the central nervous system. We identified two SACS mutations in ARSACS families that lead to protein truncation, consistent with haplotype analysis.

L9 ANSWER 3 OF 4 MEDLINE on STN  
 ACCESSION NUMBER: 1999162199 MEDLINE  
 DOCUMENT NUMBER: 99162199 PubMed ID: 10053011  
 TITLE: Location score and haplotype analyses of the locus for autosomal recessive spastic ataxia of Charlevoix-Saguenay, in chromosome region 13q11.  
 COMMENT: Erratum in: Am J Hum Genet 1999 Apr;64(4):1257  
 AUTHOR: Richter A; Rioux J D; Bouchard J P; Mercier J; Mathieu J; Ge B; Poirier J; Julien D; Gyapay G; Weissenbach J; Hudson T J; Melancon S B; Morgan K  
 CORPORATE SOURCE: Service de Genetique Medicale, Hopital Sainte-Justine, 3175 chemin de la Cote Sainte-Catherine, Montreal, Quebec H3T 1C5, Canada.. richtera@ere.umontreal.ca  
 SOURCE: AMERICAN JOURNAL OF HUMAN GENETICS, (1999 Mar) 64 (3) 768-75.  
 Journal code: 0370475. ISSN: 0002-9297.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 199904  
 ENTRY DATE: Entered STN: 19990504  
 Last Updated on STN: 20000421  
 Entered Medline: 19990420

AB Autosomal recessive spastic ataxia of Charlevoix-Saguenay ( \*\*\*ARSACS\*\*\* ) is a clinically homogeneous form of early-onset familial spastic ataxia with prominent myelinated retinal nerve fibers. More than 300 patients have been identified, and most of their families originated in the Charlevoix-Saguenay region of northeastern Quebec, where the carrier prevalence has been estimated to be 1/22. Consistent with the hypothesis of a founder effect, we observed excess shared homozygosity at 13q11, among patients in a genomewide scan of 12 families. Analysis of 19 pedigrees demonstrated very tight linkage between the \*\*\*ARSACS\*\*\* locus and an intragenic polymorphism of the gamma-sarcoglycan (SGCG) gene, but genomic DNA sequence analysis of all eight exons of SGCG revealed no disease-causing \*\*\*mutation\*\*\*. On the basis of haplotypes composed of seven marker loci that spanned 11.1 cM, the most likely position of the \*\*\*ARSACS\*\*\* locus was 0.42 cM distal to the SGCG polymorphism. Two groups of \*\*\*ARSACS\*\*\* -associated haplotypes were identified: a large group that carries a common SGCG allele and a small group that carries a rare SGCG allele. The haplotype groups do not appear to be closely related. Therefore, although chromosomes within each haplotype group may harbor a single \*\*\*ARSACS\*\*\* \*\*\*mutation\*\*\* identical by descent, the two \*\*\*mutations\*\*\* could have independent origins.

L9 ANSWER 4 OF 4 MEDLINE on STN  
 ACCESSION NUMBER: 93231501 MEDLINE  
 DOCUMENT NUMBER: 93231501 PubMed ID: 8472930  
 TITLE: Genetic epidemiology of autosomal recessive spastic ataxia of Charlevoix-Saguenay in northeastern Quebec.

AUTHOR: . De Braekeleer M; Giasson F; Mathieu J; Roy M; Bouchard J P; Morgan K  
CORPORATE SOURCE: Departement des Sciences Humaines, Universite du Quebec a Chicoutimi, Canada.  
SOURCE: GENETIC EPIDEMIOLOGY, (1993) 10 (1) 17-25.  
Journal code: 8411723. ISSN: 0741-0395.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199305  
ENTRY DATE: Entered STN: 19930604  
Last Updated on STN: 20000303  
Entered Medline: 19930519

AB Autosomal recessive spastic ataxia of Charlevoix-Saguenay ( \*\*\*ARSACS\*\*\* ) is a disorder that has an elevated frequency in Saguenay-Lac-St-Jean (SLSJ) and Charlevoix, two geographically isolated regions in the past of northeastern Quebec. The incidence at birth and the carrier rate in SLSJ were estimated at 1/1,932 liveborn infants and 1/22 inhabitants, respectively, for the period 1941-1985. The mean inbreeding coefficient was twice higher and the mean kinship coefficient 3 times higher among the \*\*\*ARSACS\*\*\* families than among control families. In the SLSJ region, the birth places of the \*\*\*ARSACS\*\*\* individuals and their parents did not show a clustered distribution. The genealogical reconstruction suggests that the high incidence of \*\*\*ARSACS\*\*\* in SLSJ and Charlevoix is likely to be the result of a founder effect. Because the disease is apparently unknown elsewhere in the world and a high proportion of French Canadians presently living in eastern Quebec have ancestors coming from Perche, a small region in France, it also suggests that a unique \*\*\*mutation\*\*\* accounts for most, if not all, of the \*\*\*ARSACS\*\*\* cases known in these regions.

=> d his

(FILE 'HOME' ENTERED AT 17:44:28 ON 02 SEP 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 17:44:48 ON 02 SEP 2003

L1 232 S SPASTIN  
L2 30 S SACSIN  
L3 257 S L1 OR L2  
L4 60 S ARSACS  
L5 25 S L4 (P) MUTAT?  
L6 12 S L5 (P) L3  
L7 5 DUPLICATE REMOVE L6 (7 DUPLICATES REMOVED)  
L8 8 DUPLICATE REMOVE L5 (17 DUPLICATES REMOVED)  
L9 4 S L8 NOT L7

=> s l8 (p) recombinant

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L70 (P) RECOMBINA'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L72 (P) RECOMBINA'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L74 (P) RECOMBINA'  
L10 0 L8 (P) RECOMBINANT

=> d his

(FILE 'HOME' ENTERED AT 17:44:28 ON 02 SEP 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 17:44:48 ON 02 SEP 2003

L1 232 S SPASTIN  
L2 30 S SACSIN  
L3 257 S L1 OR L2  
L4 60 S ARSACS  
L5 25 S L4 (P) MUTAT?  
L6 12 S L5 (P) L3  
L7 5 DUPLICATE REMOVE L6 (7 DUPLICATES REMOVED)  
L8 8 DUPLICATE REMOVE L5 (17 DUPLICATES REMOVED)  
L9 4 S L8 NOT L7  
L10 0 S L8 (P) RECOMBINANT

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY  
25.05

SESSION  
21.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

CA SUBSCRIBER PRICE

ENTRY  
-1.95

SESSION  
-1.95

Connection closed by remote host